

## In the Claims

What is claimed is:

1. A method comprising:

performing context-based processing of a set of information items utilizing a set of context items to produce context-processed information items, the context-based processing comprises one of context filtering, context prioritizing, and context filtering and context prioritizing.

2. The method of claim 1, further comprising:

evaluating a utility function, producing an iteration evaluation based on the utility function; and

based on the iteration evaluation, doing one of repeating the context-based processing and not repeating the context-based processing.

3. The method of claim 1, wherein the information items are heterogeneous.

4. The method of claim 1, further comprising receiving at least one information item in the set of information items from a user input.

5. The method of claim 1, wherein the context-based processing further comprises context processing at a first device wherein at least one information item is received from a second device.

6. The method of claim 1 further comprising:  
presenting at least one context-processed information item to a user.

7. The method of claim 6, wherein when processing comprises context prioritizing, presenting further comprises presenting in prioritized order.

8. The method of claim 1 further comprises transferring a context-processed information item from a first device to a second device.

9. The method of claim 1 wherein transferring further comprises intra-device transferring.

10. The method of claim 1 wherein, when processing comprises context prioritizing, transferring further comprises transferring in prioritized order.

11. The method of claim 1 wherein the set of context items comprises at least one of user context, computer context, and communication network context.

12. The method of claim 11 wherein user context comprises at least one of user identity, activity, activity start time, activity duration, activity location, user task, user location, and a list of devices accessible by a user.

13. The method of claim 11 wherein computer context comprises at least one of hardware attributes, software attributes, operating system profile attributes, power reserves, power consumption rate, amount of available memory, amount of available storage, user interfaces, costs, usage policies and security and enforcement information.

14. The method of claim 11 wherein communication network context comprises at least one of network profile attributes, network security, network stability, data transfer rate, connection quality, transfer latency, error rate, network load, signal strength, cost, quality of service, usage policies and network protocols.

15. A machine readable medium, having stored thereon, a set of instructions, which when executed, cause a machine to perform a method comprising:

performing context-based processing of a set of information items utilizing a set of context items to produce context-processed information items, the context-based processing comprises one of context filtering, context prioritizing, and context filtering and context prioritizing.

16. The machine readable medium of claim 15, wherein the method further comprises:

evaluating a utility function, producing an iteration evaluation based on the utility function; and

based on the iteration evaluation, doing one of repeating the context-based processing and not repeating the context-based processing.

17. The machine readable medium of claim 15, wherein the information items are heterogeneous.

18. The machine readable medium of claim 15, wherein the method further comprises receiving at least one information item in the set of information items from a user input.

19. The machine readable medium of claim 15, wherein the context-based processing further comprises context processing at a first device wherein at least one information item is received from a second device.

20. The machine readable medium of claim 15, wherein the method further comprises:

presenting at least one context-processed information item to a user.

21. The machine readable medium of claim 20, wherein when processing comprises context prioritizing, the method further comprises presenting further comprises presenting in prioritized order.

22. The machine readable medium of claim 15 further comprising transferring from a first device to a second device.
23. The machine readable medium of claim 15 wherein transferring further comprises intra-device transferring.
24. The machine readable medium of claim 15 wherein, when processing comprises context prioritizing, transferring further comprises transferring in prioritized order.
25. The machine readable medium of claim 15 wherein the set of context items comprises at least one of user context, computer context, and communication network context.
26. The machine readable medium of claim 15 wherein user context comprises at least one of user identity, activity, activity start time, activity duration, activity location, user task, user location, and a list of devices accessible by a user.
27. The machine readable medium of claim 25 wherein computer context comprises at least one of hardware attributes, software attributes, operating system profile attributes, power reserves, power consumption rate, amount of available memory, amount of available storage, user interfaces, costs, usage policies and security and enforcement information.

28. The machine readable medium of claim 25 wherein communication network context comprises at least one of network profile attributes, network security, network stability, data transfer rate, connection quality, transfer latency, error rate, network load, signal strength, cost, quality of service, usage policies and network protocols.

29. A system comprising:

a unit to context-based process a set of information items utilizing a set of context items to produce context-processed information items, the context-based processing comprises one of context filtering, context prioritizing, and context filtering and context prioritizing.

30. The system of claim 29, the unit further evaluates a utility function and produces an iteration evaluation based on the utility function, and based on the iteration evaluation, does one of repeating the context-based processing and not repeating the context-based processing.

31. The system of claim 29, wherein the information items are heterogeneous.

32. The system of claim 29, further including a second unit to receive at least one information item in the set of information items from a user input.

33. The system of claim 29, wherein the second unit receives at least one information item from a second device.

34. The system of claim 29 further including a third unit to present at least one context-processed information item to a user.

35. The system of claim 34, wherein when processing comprises context prioritizing, presenting further comprises presenting in prioritized order.

36. The system of claim 29 further including a fourth unit to transfer a context-processed information item to a second device.

37. The system of claim 29 further including a fourth unit to transfer a context-processed information item within the system.

38. The system of claim 29 wherein the set of context items comprises at least one of user context, computer context, and communication network context.

39. The system of claim 38 wherein user context comprises at least one of user identity, activity, activity start time, activity duration, activity location, user task, user location, and a list of devices accessible by a user.

40. The system of claim 38 wherein computer context comprises at least one of hardware attributes, software attributes, operating system profile attributes, power reserves, power consumption rate, amount of available memory, amount of available storage, user interfaces, costs, usage policies and security and enforcement information.

41. The system of claim 38 wherein communication network context comprises at least one of network profile attributes, network security, network stability, data transfer rate, connection quality, transfer latency, error rate, network load, signal strength, cost, quality of service, usage policies and network protocols.